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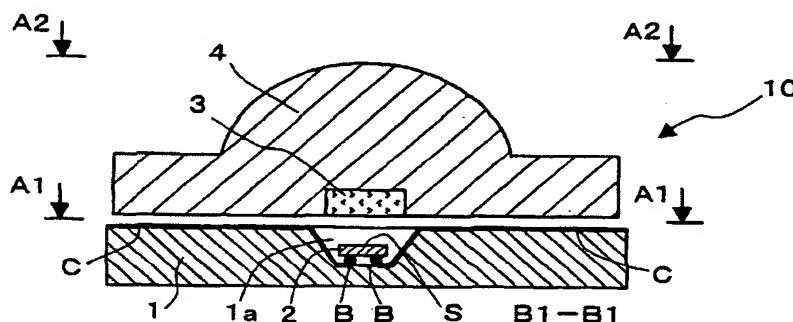
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[続葉有]

(54) Title: LIGHT EMITTING DEVICE USING LED

(54) 発明の名称: LEDを用いた発光装置



(57) Abstract: A light emitting device (10) using an LED, comprising a mounting substrate (1), a light emitting element (2) mounted on the mounting substrate (1) with its face down, a fluorescent member (3) disposed to face the light-outgoing surface (S) of the light emitting element (2) in non-contact with the element (2), and an optical member (4) that distributes to the outside of the device a light beam shone thereto from the element (2) via the member (3). A light beam from the element (2) is shone into the member (3) to excite a phosphor, and the phosphor emits a light beam having a wavelength different from that of the incident light. A light beam from the element (2) that has passed through the member (3) without being absorbed by the member and a light beam emitted from the phosphor are incident into the optical member (4) and distributed. The fluorescent member (3), being not in contact with the element (2), never receive the heat of the element (2) through heat conduction and is protected against deterioration by heat. A face-down mounting allows the fluorescent member (3) and the optical member (4) to approach the element (2) as long as they are kept out of contact with the element (2). As a result, light can be efficiently picked up whole prolonging the life of an easy-to-deteriorate phosphor or phosphor-containing resin, and light can be distributed in a specified direction.

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